



MATERIAL REPORT

REPORT NUMBER: KB4425

DATE: 09/01/84

TITLE: Evaluation of Parker Compound P0642-70

PURPOSE: To document conformance to acceptance tests.

CONCLUSION: Parker compound P0642-70 meets these requirements

Recommended Temperature Range: -40 to 180F

Recommended for: petroleum oils, ozone, silicone oil,
propane, butane

Not Recommended for: ketones, esters, ethers, alcohols,
glycols, steam, alkalis, amines, acids

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REPORT DATA

Report Number: KB4425

COMPOUND: P0642-70

SIZE: 2-223

O-RINGS

ORIGINAL PHYSICAL PROPERTIES

SPECIFICATION

Hardness, Shore A, pts.

75 ± 5

70

Tensile Strength, psi.

750 min.

4290

Elongation, %

200 min.

390

180° Flat Bend

No cracks

No cracks

Low Temperature Flex,

5 hrs @ -65°F

No cracks

No cracks

ASTM #3 OIL, 70 HRS. @ 212°F

Hardness Change

+25

70 (0)

Tensile Change

-25% max.

3300 (-23.0)

Elongation Change

-50% max.

355 (-9.0)

Volume Change

-50% max

+ 3.4

180° Flat Bend

No cracks

No cracks

Low Temperature Flex,

5 hrs. @ - 65°F

No cracks

No cracks

MIL-1-7808, 70 HRS. @ 212°F

Hardness Change

-20 max.

65 (-5)

Tensile Change

-25% max.

3630 (-15.4)

Elongation Change

-25% max.

450 (+15.4)

Volume Change

0 to +20%

+5.3

180° Flat Bend

No cracks

No cracks

Low Temperature Flex,

5 hrs. @ -65°F

No cracks

No cracks

OVEN AGE, 70 HRS @ 212°F

Hardness Change

+20

75 (+5)

Tensile Change

-20%

4455 (+3.8)

Elongation Change

-60%

470 (+20.6)

180° Flat Bend

No cracks

No cracks

Low Temperature Flex,

5 hrs. @ -65°F

No cracks

No cracks

COMPRESION SET,

70 HRS. @ 212°F

% Deflection

75

58.0